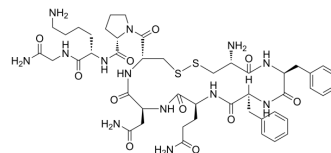


## Felypressin

<b>Cat. No.:</b>	HY-A0182
<b>CAS No.:</b>	56-59-7
<b>Molecular Formula:</b>	C <sub>46</sub> H <sub>65</sub> N <sub>13</sub> O <sub>11</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	1040.22
<b>Sequence:</b>	Cys-Phe-Phe-Gln-Asn-Cys-Pro-Lys-Gly-NH <sub>2</sub> (Disulfide bridge: Cys1-Cys6)
<b>Sequence Shortening:</b>	CFFQNCPKG-NH <sub>2</sub> (Disulfide bridge: Cys1-Cys6)
<b>Target:</b>	Vasopressin Receptor
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	Sealed storage, away from moisture
	Powder    -80°C    2 years
	-20°C    1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 100 mg/mL (96.13 mM)  
 DMSO : ≥ 10.4 mg/mL (10.00 mM)  
 \* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.9613 mL	4.8067 mL	9.6134 mL
	5 mM	0.1923 mL	0.9613 mL	1.9227 mL
	10 mM	0.0961 mL	0.4807 mL	0.9613 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Felypressin (PLV-2) is a non-catecholamine vasoconstrictor and a vasopressin 1 agonist. Felypressin is widely used in dental procedures <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Vasopressin 1 <sup>[2]</sup>
<b>In Vitro</b>	Felypressin is a synthetic hormone of the posterior pituitary lobe characterized by vasoconstrictor properties that is widely used in dental procedures. The vasoconstrictor action of Felypressin seems to be mediated by V1 receptors of the blood vessel smooth muscle cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Felypressin can reduce toxicity during dental procedures. Felypressin increases the diastolic blood pressure of hypertensive

patients with controlled blood pressure<sup>[1]</sup>.

Cardiovascular effects of Felypressin (240 ng/kg; intravenous injection) are studied in Wistar rats. Felypressin induces a pressor effect. Felypressin depends on V1 receptors to induce pressor and bradycardic effects, and that it produces a high relationship between bradycardia and mean arterial pressure variation depending on area postrema and central V1 receptors<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## CUSTOMER VALIDATION

- J Pharm Biomed Anal. 2022: 115156.
- J Pharm Biomed Anal. 11 December 2021, 114518.
- University of Saskatchewan. 2020 Jun 22.

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## REFERENCES

[1]. Bronzo AL et al. Felypressin increases blood pressure during dental procedures in hypertensive patients. Arq Bras Cardiol. 2012 Aug;99(2):724-31.

[2]. Cecanho R et al. Cardiovascular effects of felypressin. Anesth Prog. 2006 Winter;53(4):119-25.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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